PRINCE WILLIAM COUNTY
LOCALLY ADMINISTERED PROJECT
NEABSCO MILLS ROAD (RTE. 638) - WIDEN TO 4 LANES
From Jefferson Davis Highway (US Rte. 1)
To Smoke Ct. (Rte. 1782)

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA METRICS

<table>
<thead>
<tr>
<th>No.</th>
<th>Total Lane</th>
<th>Lane</th>
<th>Design Veh. ADT</th>
<th>Lane</th>
<th>Design Veh. ADT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>12,000</td>
<td>2</td>
<td>6,000</td>
</tr>
</tbody>
</table>

NOTE: Design Veh. ADT is based on 10-year average daily traffic for the project year.

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

PRINCE WILLIAM COUNTY
NEABSCO MILLS ROAD (RTE. 638) - WIDEN TO 4 LANES
From Jefferson Davis Highway (US Rte. 1)
To Smoke Ct. (Rte. 1782)

THE DEPARTMENT OF TRANSPORTATION PERFORMS ANY OF THE DESIGN ON THE PLAN SHEETS.

DESIGN FEATURES RELATING TO CONSTRUCTION OR REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2014 HORIZONTAL AND CURVATURE DESIGN STANDARDS. DETAILS OF THE PLAN SHEETS AND THE COMPLETE ELECTRONIC FILES AND LAYERED FILES ON THE DESIGN CENTER.

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

PRINCE WILLIAM COUNTY PopULATION 462,464 (2010 Census)

PROJECT LENGTHS ARE BASED ON Rte. 638 Construction Baseline between Sta. 0+000 and Sta. 2+049

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION

PRINCE WILLIAM COUNTY PopULATION 462,464 (2010 Census)

PROJECT LENGTHS ARE BASED ON Rte. 638 Construction Baseline between Sta. 0+000 and Sta. 2+049

R/W PHASE PLANS

R/W PHASE PLANS
## Preliminary Right of Way Data Sheet

**NOTICE:** All data shown here is for information and estimating purposes only. VDOT Proj. 0556/0652/0904.00 is a locally administered project by PM/WST and Final Application Plans are required and shall be provide by a professional surveyor.

**Design Features Relating to Construction:**

**R/W Phase Plans:**

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Project ID</th>
<th>Sheet Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1C(0)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PROJECT ASSIGNED PARCEL NO.**

<table>
<thead>
<tr>
<th>LanCanada</th>
<th>Plan Sheet No.</th>
<th>Total Acres</th>
<th>Total SF</th>
<th>8 105.6623 Ac.</th>
<th>4 20.5640 Ac.</th>
<th>7 76.9897 Ac.</th>
<th>3 0.5852 Ac.</th>
<th>8 0.4339 Ac.</th>
<th>6 0.5000 Ac.</th>
<th>13 0.7900 Ac.</th>
<th>4 1.0000 Ac.</th>
<th>6 0.6831 Ac.</th>
<th>7 1.1634 Ac.</th>
</tr>
</thead>
<tbody>
<tr>
<td>D01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D02</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D03</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D04</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D06</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D07</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D09</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OWNER'S NAME:**

- Harvest Life Changers Church International Inc.
- 15512 NEABSCO MILLS LLC
- Unknown Ownership

**NOTE:** These plans are unfinished and unapproved and are not to be used for any purpose of construction.
### Demolition Summary

**DEMOlITION OF BUILDING / CLEARING OF PARCEL / CLOSING WELL / UNDERGROUND STORAGE TANK REMOVAL SUMMARY**

<table>
<thead>
<tr>
<th>SHEET NUMBER</th>
<th>PARCEL NUMBER</th>
<th>DEMOLITION NUMBER</th>
<th>LANDOWNER</th>
<th>STATION RL. OR LI.</th>
<th>DESCRIPTION</th>
<th>INCLUDED IN CONTRACT</th>
<th>NOT IN CONTRACT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DEMOLITION OF BRIDGES</td>
<td>DEMOLITION OF BUILDINGS</td>
<td>DEMOLITION OF PARCEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LUMP SUM</td>
<td>LUMP SUM</td>
<td>LUMP SUM</td>
</tr>
<tr>
<td>1</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7040</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7050</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7060</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7070</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7080</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7090</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7100</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7110</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7120</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>10</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7130</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>11</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7140</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
<tr>
<td>12</td>
<td>G7</td>
<td>0409</td>
<td>PRY NORTHERN VIRGINIA</td>
<td>7150</td>
<td>54' RT</td>
<td>Light Pole</td>
<td>-</td>
</tr>
</tbody>
</table>

### Note
- THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY PURPOSE OR CONSTRUCTION.
<table>
<thead>
<tr>
<th>PLAN NO.</th>
<th>TEST NO.</th>
<th>DISTANCE</th>
<th>STATION IN ROADWAY</th>
<th>OWNER</th>
<th>TYPE OF FACILITY</th>
<th>ELEV.</th>
<th>CONTRACT COORD.</th>
<th>UTILITIES ASSOCIATED WITH THE FACILITY</th>
<th>CONFLICT</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>33.27</td>
<td>18+11.33 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>22.98</td>
<td>Yes</td>
<td>Underwood Electric</td>
<td>Yes</td>
<td>Debris at a depth of 8.31' which prevented measurement of utility.</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>34.77</td>
<td>19+17.00 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>23.54</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>35.22</td>
<td>19+33.21 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>23.84</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>35.98</td>
<td>19+49.58 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>24.68</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>5</td>
<td>36.50</td>
<td>20+03.01 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>25.59</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>6</td>
<td>36.97</td>
<td>20+29.12 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>25.89</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>7</td>
<td>37.42</td>
<td>20+55.23 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>26.38</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>25.78</td>
<td>14+27.18 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>17.45</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>26.27</td>
<td>14+53.24 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>17.85</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>26.75</td>
<td>14+79.35 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>18.25</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>27.22</td>
<td>14+105.67 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>18.65</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>27.63</td>
<td>14+131.78 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>19.05</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>28.02</td>
<td>14+157.90 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>19.44</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>28.42</td>
<td>14+184.01 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>19.84</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>25.78</td>
<td>18+27.18 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>17.45</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>26.27</td>
<td>18+53.24 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>17.85</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>26.75</td>
<td>18+79.35 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>18.25</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>27.22</td>
<td>18+105.67 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>18.65</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>27.63</td>
<td>18+131.78 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>19.05</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>28.02</td>
<td>18+157.90 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>19.44</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>28.42</td>
<td>18+184.01 Neabsco Mills Rd.</td>
<td>Owner</td>
<td>General Electric</td>
<td>19.84</td>
<td>No</td>
<td>Underwood Electric</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

1. USE TEST HOLE INFORMATION ONLY FROM THE SURVEY BASELINE UNLESS OTHERWISE NOTED.
2. ELEVATIONS SHOWN REFER TO THE TOP OF THE SURVEY BASELINE UNLESS OTHERWISE NOTED.
3. YES OR NO INDICATES NO DIRECT CONFLICT BETWEEN FACILITY UNLESS OTHERWISE NOTED.
4. REMARKS TO INCLUDE CLEARANCE DIMENSIONS REGARDLESS OF GRADE.
5. YES OR NO INFORMATION TO BE PROVIDED BY THE INDIVIDUAL FACILITY OWNERS.
Temporary Traffic Control General Notes

General Notes:

1. Transportation Management Plan/Sequence of Construction Type B Project Information

The Contractor shall be responsible for implementing and providing the following:

- A site survey marking plan (not to exceed VDOT's approved plan).
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

2. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

3. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

4. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

5. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

6. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

7. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

8. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

9. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

10. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

11. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

12. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

13. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

14. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

15. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

16. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

17. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

18. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

19. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.

20. Temporary Traffic Control Plan

The Contractor shall be responsible for implementing and providing the following:

- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
- A back-up plan in case the approved plan is not feasible due to unforeseen circumstances.
- A traffic control plan that is submitted to Prince William County Police and Prince William County Fire/Rescue prior to the start of the project.
Existed Legend:
- Solid Line denotes proposed permanent easement.
- Dash-dot line denotes proposed temporary easement.
- Easement Legend:
  - Necessary by the Department
  - May be subject to change as deemed or to regulation and control of traffic
  - Design features relating to construction
  - Design features relating to paving

Suggested TMP/SOC Legend: Phase 1
- Denotes Group II Channelizing Devices
- Denotes Traffic Flow
- Denotes Existing Road/Traffic Flow
- Denotes Temp. Pavement Construction This Phase
- Denotes Perm. Pavement Construction This Phase

R/W PHASE PLANS

PHASE 1 TMP/SOC

Legend: Phase 1

- Suggested TMP/SOC Legend
- Existed Legend:
  - Solid Line denotes permanent easement
  - Dash-dot line denotes temporary easement

(Additional details and annotations not fully transcribed due to image nature)
PHASE 2 TMP/SOC

Contractor to implement VMAP TTC-01 on Southbound Road. Contractor to sequence the setting & seeing of warning devices for areas of TTC-01 to minimize traffic flow during temporary shift.

Temporary Pavement Marking Legend:
- Type D, Class I/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
- Type D, Class I/II, White, 24" Width
- Type D, Class I/II, White, 6" Width
- Type D, Class I/II, White, 24" Width @ 45°
- Type D, Class I/II, White, 4" Width @ 45°
- Type D, Class I/II, White, 8" Width @ 45°
- White Traffic Lane Arrow
- White Arrow, Solid Arrow, Double Line
- Solid Line

Proposed R/W

Easement Legend:
- Solid line denotes proposed temporary easement.
- Dash-dot line denotes proposed permanent easement.
Contractor to implement proposed temporary easement.

Easement Legend:

- Denotes Group II Channelizing Devices
- Denotes Traffic Flow
- Denotes Existing Road/Traffic Flow

Suggested TMP/SOC Legend: Phase 3

- Dash-dot-dot line denotes proposed temporary easement.
- Bolded line denotes proposed permanent easement.
- Chain line denotes proposed temporary easement.
- Dotted line denotes proposed permanent easement.

Legend:

- Type D, Class I/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
- Type D, Class I/II, Yellow, 24" Width @ 45°
- Type D, Class I/II, Yellow, 4" Width, 2' Long, 4' Space
- Type D, Class I/II, White, 24" Width
- White, Turn Lane Use Arrow
- Type D, Class I/II, Yellow, 4" Width, Double Line, 4' Space
- Type D, Class I/II, White, 6" Width
- Type D, Class I/II, White, 4" Width, 2' Long, 4' Space
- Type D, Class I/II, White, 4" Width
- Type D, Class I/II, White, 24" Width @ 45°
- Type D, Class I/II, White, 24" Width
- Type D, Class I/II, White, 4" Width
- Existing Pavement Marking

Gas Caps (Typical)

MW
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC
FC

Accumark (703) 378-0100, August 1, 2017

RDA: Mark A. Gunn PE (703) 334-9288

Temporary Pavement Marking Legend

- Type D, Class I/II, Yellow, 4" Width, Double Line, 2' Long, 4' Space
- Type D, Class I/II, Yellow, 24" Width @ 45°
- Type D, Class I/II, Yellow, 4" Width, 2' Long, 4' Space
- Type D, Class I/II, White, 24" Width
- White, Turn Lane Use Arrow
- Type D, Class I/II, Yellow, 4" Width, Double Line, 4' Space
- Type D, Class I/II, White, 6" Width
- Type D, Class I/II, White, 4" Width, 2' Long, 4' Space
- Type D, Class I/II, White, 4" Width
- Type D, Class I/II, White, 24" Width @ 45°
- Type D, Class I/II, White, 24" Width
- Type D, Class I/II, White, 4" Width
- Existing Pavement Marking
**Easement Legend:**

- **F**: Denotes Existing Road/Traffic Flow
- **G**: Denotes Group II Channelizing Devices
- **T**: Denotes Construction Under Traffic This Phase
- **C ab.**: Denotes Permanent Pavement Construction This Phase
- **T ele.**: Denotes Traffic Flow

**Temporary Pavement Marking Legend**

- **Type D, Class I/II, White, 4" Width**
- **Type D, Class I/II, White, 4" Width, 2' Long, 4' Space**
- **Type D, Class I/II, White, 6" Width**
- **Type D, Class I/II, Yellow, 4" Width**
- **Type D, Class I/II, Yellow, 4" Width, Double Line, 4' Space**
- **Type D, Class I/II, Yellow, 24" Width**
- **Type D, Class I/II, Yellow, 24" Width @ 45°**
- **Type D, Class I/II, Yellow, Double Line, 2' Long, 4' Space**
- **White, Turn Lane Use Arrow**
- **Yellow, Turn Lane Use Arrow**

**Phase 3 TMP/SOC**

Contractor to implement HWAM TTC-2.1 and TTC-3.1 on Northbound Neabsco Mills Rd.

Rinker Design Associates, P.C.

Office Locations

- **Manassas, VA**: 20109, Suite 200, 9385 Discovery Boulevard, Fax: (703) 257-5443, Phone: (703) 368-7373
- **Fredericksburg, VA**: 22407, Suite 105, 927 Maple Grove Drive, Fax: (540) 548-4471, Phone: (540) 548-4470
- **Glen Allen, VA**: 23060, Suite 100, 4301 Dominion Boulevard, Fax: (703) 612-0668, Phone: (703) 612-0665
EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS:

1. PERMANENTLY OR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE APPLIED TO ALL AREAS WHERE CONSTRUCTION ACTIVITY IS OCCURRING OR HAS OCCURRED. EROSION AND SEDIMENT CONTROL MEASURES MUST BE PLACED IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITY.

2. DRAINAGE CONSTRUCTION OF THE PROJECT ON STAKES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED COVERS AND ADEQUATE DRAINAGE MEASURES ACCORDING TO THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND THE LOCAL PROGRAM AUTHORITY.

3. A PERMANENT VEGETATIVE COVER SHALL BE ERECTED OR WHERE CONSTRUCTION ACTIVITY IS OCCURRING OR HAS OCCURRED. EROSION AND SEDIMENT CONTROL MEASURES MUST BE PLACED IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITY.

4. SEGMENT BAGS AND TRANSFERMENT DEVICES/SURFACE WATER COLLECTIONS OTHER MEASURES MAY BE REQUIRED TO PROTECT THE CONSTRUCTION AREA AND PREVENT DISCHARGE TO NONTIMBERS.

5. STABILIZATION MEASURES SHALL BE APPLIED TO ALL AREAS ADEQUATELY PROTECTED TO PROTECT THE CONSTRUCTION AREA.

6. SEGMENT BAGS AND TRANSFERMENT DEVICES/SURFACE WATER COLLECTIONS OTHER MEASURES MAY BE REQUIRED TO PROTECT THE CONSTRUCTION AREA AND PREVENT DISCHARGE TO NONTIMBERS.

7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL NOT CAUSE EROSION.

8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN ONTO CONSTRUCTED AREAS UNLESS CONSTRUCTED AREAS ARE STABILIZED OR PROTECTED.

9. WHERE CONSTRUCTION VEHICLE ACCESS PATHS INTERSECT PUBLIC ROADS OR PROPERLY CONSTRUCTED OR CRUSHED CONCRETE ROADWAYS, THESE AREAS SHALL BE ENCLOSED AND COVERED WITH EROSION CONTROL MEASURES. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.

10. COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF SCALES FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (I) DETAIN THE SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.

11. ALL SUBSURFACE UTILITY BY, DATE

12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER ALL CONSTRUCTION ACTIVITY IS COMPLETE.

13. IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS CONCLUDED.

14. THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF DISCHARGE FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

15. TRAPPED MEASURES SHALL BE DESIGNED AND CONSTRUCTED BASED UPON IMHANCED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED MEASURES THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL BE APPLICABLE TO EROSION AND DAMAGE DUE TO INCREASE IN VOLUME, VELOCITY AND PIPES AND STORM SEWER SYSTEMS SHALL BE MANAGED TO THE USE OF A TEN-YEAR STORM TO WARRANT THIS STORMWATER WILL BE CONTAINED WITHIN THE PIPES OR SYSTEM.

16. IF EXISTING MAINLY RECEIVING CHANNELS OR CONSTRUCTED EROSION AND SEDIMENT CONTROL MEASURES ARE NOT AVAILABLE, THE APPLICANT SHALL

17. IMPROVE THE CHANNEL TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TEN-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL BED OR BANKS.

18. IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY.

19. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL

20. IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY.

21. ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR ADEQUATELY PROTECTED TO PROTECT THE CONSTRUCTION AREA.

22. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE STABILIZED OR PROTECTED.

23. THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF DISCHARGE FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.

24. THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE REQUIRED TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.

25. Any plan approval to satisfy the requirements of the Stormwater Management Program (VSMP) permit regulations shall be deemed to satisfy the requirements of any applicable federal, state, and local regulations pertaining to working in or a development permitting jurisdiction.

26. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PROTECTED AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITE SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT INHIBITING EROSION.
<table>
<thead>
<tr>
<th>SOIL NUMBER</th>
<th>SOIL NAME</th>
<th>H/S</th>
<th>K-FACTOR</th>
<th>DRAINAGE CLASS</th>
<th>SLOPES</th>
<th>RUNOFF CLASS</th>
<th>DEPTH TO BEDROCK</th>
<th>FLOODING</th>
<th>SHRINK/SWELL</th>
</tr>
</thead>
<tbody>
<tr>
<td>47B</td>
<td>Quantico Sandy Loam</td>
<td>B</td>
<td>.32</td>
<td>Well Drained</td>
<td>7-15%</td>
<td>None</td>
<td>0-80 In</td>
<td>Low/Moderate</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>47C</td>
<td>Quantico Sandy Loam</td>
<td>B</td>
<td>.32</td>
<td>Well Drained</td>
<td>7-15%</td>
<td>None</td>
<td>0-80 In</td>
<td>Low/Moderate</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>54B</td>
<td>Urban Land-Subsurface complex</td>
<td>-</td>
<td>-</td>
<td>Very High</td>
<td>14-30%</td>
<td>None</td>
<td>0-80 In</td>
<td>Low/Moderate</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>55E</td>
<td>Wall Cherry Soil Loam</td>
<td>B</td>
<td>.24</td>
<td>Somewhat Excessively Drained</td>
<td>15-25%</td>
<td>20-40 In</td>
<td>None</td>
<td>Low</td>
<td></td>
</tr>
<tr>
<td>55C</td>
<td>Llano Loam</td>
<td>B</td>
<td>.37</td>
<td>Well Drained</td>
<td>7-15%</td>
<td>None</td>
<td>0-80 In</td>
<td>Low/Moderate</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>56D</td>
<td>Lithic Fine Sandy Loam</td>
<td>B</td>
<td>.49</td>
<td>Well Drained</td>
<td>7-15%</td>
<td>None</td>
<td>0-80 In</td>
<td>Low/Moderate</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>46C</td>
<td>Delanco Fine Sandy Loam</td>
<td>C/D</td>
<td>.21</td>
<td>Moderately Well Drained</td>
<td>0-4%</td>
<td>High</td>
<td>180 In</td>
<td>Rare</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>54B</td>
<td>Quantico Sandy Loam</td>
<td>B</td>
<td>.32</td>
<td>Well Drained</td>
<td>7-15%</td>
<td>None</td>
<td>0-80 In</td>
<td>Low/Moderate</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>47C</td>
<td>Quantico Sandy Loam</td>
<td>B</td>
<td>.32</td>
<td>Well Drained</td>
<td>7-15%</td>
<td>None</td>
<td>0-80 In</td>
<td>Low/Moderate</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>47B</td>
<td>Quantico Sandy Loam</td>
<td>B</td>
<td>.32</td>
<td>Well Drained</td>
<td>7-15%</td>
<td>None</td>
<td>0-80 In</td>
<td>Low/Moderate</td>
<td>Low/Moderate</td>
</tr>
<tr>
<td>46B</td>
<td>West Virginia Loam</td>
<td>B</td>
<td>.24</td>
<td>Somewhat Excessively Drained</td>
<td>15-25%</td>
<td>20-40 In</td>
<td>None</td>
<td>Low</td>
<td></td>
</tr>
<tr>
<td>55D</td>
<td>Wall Cherry Soil Loam</td>
<td>B</td>
<td>.24</td>
<td>Somewhat Excessively Drained</td>
<td>15-25%</td>
<td>20-40 In</td>
<td>None</td>
<td>Low</td>
<td></td>
</tr>
<tr>
<td>55E</td>
<td>Wall Cherry Soil Loam</td>
<td>B</td>
<td>.24</td>
<td>Somewhat Excessively Drained</td>
<td>15-25%</td>
<td>20-40 In</td>
<td>None</td>
<td>Low</td>
<td></td>
</tr>
</tbody>
</table>
Erosion and Sediment Control Phase I
EROSION AND SEDIMENT CONTROL
TEMPORARY SEDIMENT BASIN DETAILS

PROJECT

LOCATION

TOTAL AREA SHARED TO MAIN:

CRITICAL HILLSIDE

TEMPORARY SEDIMENT BASIN

(DISTANCE TEMPORARY WATERTIGHT)

SUMMARY TABLE

<table>
<thead>
<tr>
<th>Volume of Sediment Basin</th>
<th>Total Volume</th>
<th>Volume %</th>
<th>Volume %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PARTS & MATERIALS TO BE PROVIDED:

1. TEMPORARY EMBANKMENT CHANNELS
2. OUTLET PIPE
3. COVER PLATE
4. QUALITY ORIFICE
5. DRAINAGE TUBING
6. MIN. LENGTH.
7. SCHEDULE 40 STEEL STUB, 1 FOOT.
8. 3" DIAMETER TEMP. ORIFICE STUBOUT.
9. DEVICE
10. DEWATERING

NOTE:

1. NOTE: THE TEMPERATURE OF THE TEMPERATURE DEWATERING DEVICE IS TO BE USED FOR THE DEWATERING DEVICE AND COMPONENTS AND TEMPORARY METAL PLATES (IF ANY), AS REQUIRED BY THE DEPARTMENT.
2. THE TEMPORARY EMBANKMENT CHANNELS ARE TO BE COVERED WITH SOLID METAL PLATES WHILE THE BASIN IS BEING USED.
3. ALL OPENINGS (IF ANY) IN SIDE OF STRUCTURE (OTHER THEN PERMANENT WATER QUALITY ORIFICE) ARE TO BE COVERED WITH SOLID METAL PLATES WHILE THE BASIN IS BEING USED.
4. THESE DETAILS ARE TO BE USED TO MODIFY THE PERMANENT STORMWATER MANAGEMENT STRUCTURES.
5. A TEMPORARY SEDIMENT BASIN DURING PROJECT CONSTRUCTION.
6. THE TEMPORARY 8" DIA. POLYETHELENE DRAINAGE TUBING IS TO BE SOLID FOR THE LENGTH.
7. COST OF TEMPORARY DEWATERING DEVICE AND TEMPORARY METAL PLATES (IF ANY), AS REQUIRED BY THE DEPARTMENT.
8. A TEMPORARY SEDIMENT BASIN DURING PROJECT CONSTRUCTION.
9. THE TEMPORARY 8" DIA. POLYETHELENE DRAINAGE TUBING IS TO BE SOLID FOR THE LENGTH.
10. THE TEMPORARY 8" DIA. POLYETHELENE DRAINAGE TUBING IS TO BE SOLID FOR THE LENGTH.

NOTE:

1. POLYETHELENE TUBING COUPLING FOR 8" DIA. WATERTIGHT FLEXIBLE COUPLING FOR 8" DIA. POLYETHELENE TUBING
2. WATERTIGHT FLEXIBLE COUPLING FOR 3" DIA. STEEL PIPE TO WATERTIGHT FLEXIBLE COUPLING FOR "A" "B" "C"
3. "A" "B" "C" FOR 3" DIAMETER BOLTS & NUTS
4. "A" "B" "C" FOR \"X2" METAL CLAMPS WITH HOLES
5. STANDARD PIPE HANGER OR
6. DRAINAGE TUBING
7. SOLID POLYETHELENE
8. FOR SEDIMENT CONTROL.
9. ORIFICE) ARE TO BE COVERED WITH SOLID METAL PLATES WHILE THE BASIN IS BEING USED.
10. MERIT TIMES ARE OPENED AND NON-OPENED, AND THE COVER PLATES REQUIRED FOR CONSTRUCTION.
Earthwork quantities on this project are based on anticipated settlement. The excavation of unsuitable material, as specified on these plans, is based on the applicable VDOT Road and Bridge Standards. The following symbols are used to depict Erosion Control items in the plan. CLEARING AND GRUBBING OF SWM BASIN SITE - The area where the dam actually commences work. The cost of this work shall be included in the contract price for other items. Two Reflectorized Railroad Grade Crossing Crossbuck Signs, complete with structures, are to be installed at the time of the initial installation of the SWM-1 Drainage Structure. The connection between the pipe culvert and the SWM-1 Drainage Structure is approximate only, with the exception of structures showing specific locations. Drainage structures shown in the VDOT Road and Bridge Standard PC-1 shall be considered and may require adjusting during construction.

EROSION AND SEDIMENT CONTROL (ESC) - If it is required, brush barrier is specified by the plans or directed by the Engineer. The cost of placing and removing the temporary drainage structure and the cost of backfill shall be considered as part of the fixed contract price.
Neabsco Mills Rd., Rte. 638
Normal Crown, 4 Lane Street with Curb & Gutter

Geometric Design Standards for Urban Collector Street System (GS-7): V=35 MPH

TYPICAL SECTION NOTES

1. Mill and Overlay
2. Varies
3. Provided
4. Waiver

MAY BE SUBJECT TO CHANGE AS DEEMED OR TO REGULATION AND CONTROL OF TRAFFIC

Typical Sections
**Typical Sections**

**Church Entrance**
Normal Crown, 4 Lane Street with Curb & Gutter

**College Dr. South**
Normal Crown, 2 Lane (Future 4 Lane) Street with Curb & Gutter

**College Dr. South**
Normal Crown, 2 Lane (Future 4 Lane) Street with Curb & Gutter

**Private & Commercial Entrances**

- **Type I** - Gravel
- **Type II** - Concrete
- **Type III** - Asphalt Commercial
- **Type IV** - Asphalt Commercial

**Typical Section Notes**

- St'd. UD-2 Req'd., see plan sheets for detailed locations.
- St'd. UD-4 Req'd., see plan sheets for detailed locations.
- Pavement widening to be performed in accordance with VDOT Std. C501 and C2501.
- Shall be provided as plans sheets for detailed locations.

**NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION**

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE
NECESSARY BY THE DEPARTMENT OR TO REGULATION AND CONTROL OF TRAFFIC
DESIGN FEATURES RELATING TO CONSTRUCTION

**Private Road System**

Normal Crown, 2 Lane (Future 4 Lane) Street with Curb & Gutter

**Typical Sections**

See plan view for entrance width and geometry.

**Table of Contents**

- Sheet No. 2

- **LOCATION**
  - **STATION**
  - **TO STATION**

**Typical Section Notes**

- See plan view for entrance width and geometry.
Geotechnical Recommendations

Neabsco Mills Rd, Rte. 638

Generalized Method of Removing Unsuitable Undercut Excavation

See Inlets for locations of Unsuitable Undercut

Note: Inlets are shown as part of the project. Based on the design drawings provided by VDOT, the following table provides a summary of the excavations with a size of 36 inches or greater.

### Unsuitable soils

#### UNSUITABLE SOILS

- **High Swell (>5%) Subgrade Soils:**
  - Recommended undercutting the unsuitable soils in its entirety or 3 feet from the proposed pavement edge.
  - If groundwater is encountered during construction, we recommend placing VDOT No. 2 or No. 57 to 4 to 6 inches below the pipe invert.
  - The VDOT No. 2 or No. 57 Stone shall be wrapped in woven geosynthetic material.
- **High Moisture Content:**
  - The anticipated settlement will be 1.71 inches after undercutting.
- **High Plasticity (CH/MH):**
  - Based on the design drawings provided by VDOT, we recommend undercutting the unsuitable soils in its entirety or 3 feet from the proposed pavement edge.
  - If groundwater is encountered during construction, we recommend placing VDOT No. 2 or No. 57 to 4 to 6 inches below the pipe invert.
  - The VDOT No. 2 or No. 57 Stone shall be wrapped in woven geosynthetic material.
- **Low CBR, Highly Plastic, and Loose/Soft Subgrade Soils:**
  - Based on VDOT requirements (VDOT MOI Chapter III), the total settlement should be less than 2 inches over the initial 20-years. Due to the excessive settlement, we recommend undercutting 6 feet below the proposed pavement.
  - The locations and quantities of the excessively moist subgrade soils may be different and may be adjusted by the damask s Engineer of Record as an authorized representative of the line of construction.
  - The anticipated settlement will be 1.71 inches after undercutting.

### Table 6-7: Summary Settlement Analysis Results

<table>
<thead>
<tr>
<th>Structure ID</th>
<th>Structure Dimensions</th>
<th>Swell (Swollen) (ft)</th>
<th>Reference Boring</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-3 4</td>
<td>12.0 x 12.0</td>
<td>-5.0</td>
<td>B-05</td>
</tr>
<tr>
<td>25-3 5</td>
<td>12.0 x 12.0</td>
<td>-10.0</td>
<td>RW-3</td>
</tr>
<tr>
<td>25-3 6</td>
<td>12.0 x 12.0</td>
<td>5.0</td>
<td>RW-3</td>
</tr>
<tr>
<td>25-3 7</td>
<td>12.0 x 12.0</td>
<td>10.0</td>
<td>RW-3</td>
</tr>
</tbody>
</table>

### Table 6-6: List of Fill Embankments

<table>
<thead>
<tr>
<th>Station No.</th>
<th>F/W Location</th>
<th>Analysis Section</th>
<th>Maximum Fill (f)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R/W Phase Plans</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curb Return Profile 3-15</td>
<td>Curb Return Profile 4-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prop. Grade: E.P.</td>
<td>Prop. Grade: E.P.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(RC=42', L=66.48')</td>
<td>(RC=42', L=66.48')</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elev. = 43.65</td>
<td>Elev. = 43.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HP = 10+18.32</td>
<td>HP = 10+18.32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Curb Return Profile 4-2</th>
<th>Curb Return Profile 4-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prop. Grade: E.P.</td>
<td>Prop. Grade: E.P.</td>
</tr>
<tr>
<td>(RC=3', L=6.70')</td>
<td>(RC=3', L=6.70')</td>
</tr>
<tr>
<td>Elev. = 42.94</td>
<td>Elev. = 42.94</td>
</tr>
<tr>
<td>HP = 11+0.78</td>
<td>HP = 11+0.78</td>
</tr>
</tbody>
</table>

*NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION. THESE PLANS ARE UNFINISHED AND UNAPPROVED AND MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT OR TO REGULATION AND CONTROL OF TRAFFIC DESIGN FEATURES RELATING TO CONSTRUCTION.*

---

**Subsurface Utility By:**

**Surveyed By:**

**Date:**

**Design By:**

**Date:**

**Project Manager:**

RDA: Mark A. Gunn PE (703) 334-9288

PWCDOT: Khattab Shammout PE - (703) 792-7193

RDA: Ryan Dreelin LS (703) 334+9302, July 3, 2017

Accumark (703) 378-0100, August 1, 2017

---

**Curb Return Profiles**

<table>
<thead>
<tr>
<th>Profile</th>
<th>Location</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Roadway**

- **VA**
- **Route 638**
- **SPR2018-00271**
- **PLOT-Drivers\imperial\025-Plan VDOTLD Local PDF.pltcfg**
- **default_rda_25.tbl**
### Ditch Typicals

#### Typical Ditch "A" Median

<table>
<thead>
<tr>
<th>Station</th>
<th>to Station</th>
<th>X (ft)</th>
<th>Y (ft)</th>
<th>D* (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>3.0</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Typical Ditch "A" Roadside

<table>
<thead>
<tr>
<th>Station</th>
<th>to Station</th>
<th>X (ft)</th>
<th>Y (ft)</th>
<th>D* (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>3.0</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: Dimension "D*" denotes minimum depth of ditch lining.*

---

**Exist. Ground (Hydraulics)**

Fredericksburg, Virginia

Rinker Design Assoc., P.C.

---

**Surveyed by, Date**

**Design by**

**Subsurface Utility by, Date**

**Project Manager**

---

**RDA: Mark A. Gunn PE (703) 334-9288**

Accumark (703) 378-0100, August 1, 2017

---

**VA.**

---

**STATE ROUTE**

**REVISED STATE SHEET NO.**

---

**NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.**

---

**THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE**

---

**VA.**

---

**R/W PHASE PLANS**

---

**RDA: Ryan Dreelin LS (703) 334+9302, July 3, 2017**

---

**PWCDOT PROJECT NO.**

---

**SPR2018-00271**

---

**PWCDOT: Khattab Shammout, P.E. - (703) 792-7193**

---

**Environmental Transport Civil Engineering Surveying Land Planning**

---

**Fax: (703) 257-5443**

**Phone: (703) 368-7373**

Manassas, VA 20109

Suite 200

9385 Discovery Boulevard

---

**Fax: (703) 612-0668**

**Phone: (703) 612-0665**

Glen Allen, VA 23060

Suite 100

4301 Dominion Boulevard

---

**Fax: (540) 548-4471**

**Phone: (540) 548-4470**

Fredericksburg, VA 22407

Suite 105

927 Maple Grove Drive

---

**Fax: (540) 548-4471**

**Phone: (540) 548-4470**

Fredericksburg, VA 22407

Suite 105

927 Maple Grove Drive
## Drainage Descriptions

### Stage 1

<table>
<thead>
<tr>
<th>INV. (IN)</th>
<th>INV. (OUT)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.05</td>
<td>9.90</td>
<td></td>
</tr>
<tr>
<td>10.15</td>
<td>10.10</td>
<td></td>
</tr>
<tr>
<td>10.20</td>
<td>10.15</td>
<td></td>
</tr>
<tr>
<td>10.30</td>
<td>10.25</td>
<td></td>
</tr>
</tbody>
</table>

### Stage 2

<table>
<thead>
<tr>
<th>INV. (IN)</th>
<th>INV. (OUT)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.00</td>
<td>19.95</td>
<td></td>
</tr>
<tr>
<td>20.10</td>
<td>20.05</td>
<td></td>
</tr>
<tr>
<td>20.20</td>
<td>20.15</td>
<td></td>
</tr>
<tr>
<td>20.30</td>
<td>20.25</td>
<td></td>
</tr>
</tbody>
</table>

### Stage 3

<table>
<thead>
<tr>
<th>INV. (IN)</th>
<th>INV. (OUT)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.00</td>
<td>29.95</td>
<td></td>
</tr>
<tr>
<td>30.10</td>
<td>30.05</td>
<td></td>
</tr>
<tr>
<td>30.20</td>
<td>30.15</td>
<td></td>
</tr>
<tr>
<td>30.30</td>
<td>30.25</td>
<td></td>
</tr>
</tbody>
</table>

### Stage 4

<table>
<thead>
<tr>
<th>INV. (IN)</th>
<th>INV. (OUT)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>40.00</td>
<td>39.95</td>
<td></td>
</tr>
<tr>
<td>40.10</td>
<td>40.05</td>
<td></td>
</tr>
<tr>
<td>40.20</td>
<td>40.15</td>
<td></td>
</tr>
<tr>
<td>40.30</td>
<td>40.25</td>
<td></td>
</tr>
</tbody>
</table>

### Stage 5

<table>
<thead>
<tr>
<th>INV. (IN)</th>
<th>INV. (OUT)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.00</td>
<td>49.95</td>
<td></td>
</tr>
<tr>
<td>50.10</td>
<td>50.05</td>
<td></td>
</tr>
<tr>
<td>50.20</td>
<td>50.15</td>
<td></td>
</tr>
<tr>
<td>50.30</td>
<td>50.25</td>
<td></td>
</tr>
</tbody>
</table>

### Stage 6

<table>
<thead>
<tr>
<th>INV. (IN)</th>
<th>INV. (OUT)</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.00</td>
<td>59.95</td>
<td></td>
</tr>
<tr>
<td>60.10</td>
<td>60.05</td>
<td></td>
</tr>
<tr>
<td>60.20</td>
<td>60.15</td>
<td></td>
</tr>
<tr>
<td>60.30</td>
<td>60.25</td>
<td></td>
</tr>
</tbody>
</table>
### Drainage Descriptions

<table>
<thead>
<tr>
<th>Sheet</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-3</td>
<td>50' STORM SEWER PIPE REQUIRED ( L=12' ), ( H=4.8' ), ( INV.=146.10 ) ( \text{1 ST'D. DI-3B REQ'D.} )</td>
</tr>
<tr>
<td>5-4</td>
<td>55' STORM SEWER PIPE REQUIRED ( L=12' ), ( H=4.8' ), ( INV.=146.10 ) ( \text{1 ST'D. DI-3B REQ'D.} )</td>
</tr>
<tr>
<td>5-5</td>
<td>60' STORM SEWER PIPE REQUIRED ( L=12' ), ( H=4.8' ), ( INV.=146.10 ) ( \text{1 ST'D. DI-3B REQ'D.} )</td>
</tr>
<tr>
<td>5-6</td>
<td>65' STORM SEWER PIPE REQUIRED ( L=12' ), ( H=4.8' ), ( INV.=146.10 ) ( \text{1 ST'D. DI-3B REQ'D.} )</td>
</tr>
</tbody>
</table>

### Implementation Details

- **5-3**: 50' STORM SEWER PIPE REQUIRED with a diameter of 30" and a height of 4.8', with an invert of 146.10. One standard DI-3B is required.
- **5-4**: 55' STORM SEWER PIPE REQUIRED with a diameter of 30" and a height of 4.8', with an invert of 146.10. One standard DI-3B is required.
- **5-5**: 60' STORM SEWER PIPE REQUIRED with a diameter of 30" and a height of 4.8', with an invert of 146.10. One standard DI-3B is required.
- **5-6**: 65' STORM SEWER PIPE REQUIRED with a diameter of 30" and a height of 4.8', with an invert of 146.10. One standard DI-3B is required.

---

**NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.**

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO REGULATE AND CONTROL TRAFFIC.
**Drainage Descriptions**

**NEABSCO MILLS ROAD**

**ALLOWABLE STORM SEWER PIPE OF COVER LIMITATIONS FOR EACH TYPE (UNLESS OTHERWISE SHOWN ON PLANS)**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>CONCRETE</th>
<th>STEEL SPIRAL RIB</th>
<th>ALUMINUM SPIRAL RIB</th>
<th>CORRUGATED STEEL</th>
<th>POLYMER COATED TYPE 2 SPIRAL RIB</th>
<th>CEMENT IN LAY (SMOOTH INTERIOR)</th>
<th>CORRUGATED STEEL DOUBLE WALL (SMOOTH INTERIOR)</th>
<th>RIBBED PIPE</th>
<th>PVC CORRUGATED TYPE S</th>
<th>PE TYPE D OR S</th>
<th>PP TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-2 to 9-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9-1 to 8-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-10 to 8-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-9 to 8-10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-8 to 8-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-7 to 8-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-6 to 8-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-5 to 8-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INV.(IN) 178.10 INV.(OUT) 177.00**

32'-15" STORM SEWER PIPE REQ'D. (5' COVER)

CONNECT UD-4 to DI

ST'D. ST-1 REQ'D.

L=14' H=5.7' INV.=178.10

1 ST'D. DI-3B REQ'D.

**INV.(IN) 176.90 INV.(OUT) 176.30**

116'-18" STORM SEWER PIPE REQ'D. (4' COVER)

CONNECT UD-4 to DI

ST'D. ST-1 REQ'D.

ST'D. IS-1 REQ'D.

L=8' H=4.9' INV.=176.90

1 ST'D. DI-3B REQ'D.

**INV.(IN) 175.50 INV.(OUT) 174.20**

53'-15" STORM SEWER PIPE REQ'D. (5' COVER)

CONNECT UD-4 to DI

ST'D. ST-1 REQ'D.

L=6' H=4.7' INV.=176.64

1 ST'D. DI-3C REQ'D.

**INV.(IN) 174.10 INV.(OUT) 173.50**

85'-15" STORM SEWER PIPE REQ'D. (6' COVER)

CONNECT UD-4 to DI

ST'D. ST-1 REQ'D.

L=4' H=7.3' INV.=174.10

1 ST'D. DI-3B REQ'D.

**INV.(IN) 172.40 INV.(OUT) 170.20**

162'-24" STORM SEWER PIPE REQ'D. (6' COVER)

CONNECT UD-4 to DI

ST'D. ST-1 REQ'D.

ST'D. IS-1 REQ'D.

L=8' H=7.8' INV.=172.40

1 ST'D. DI-3B REQ'D.

**INV.(IN) 173.40 INV.(OUT) 172.50**

78'-15" STORM SEWER PIPE REQ'D. (7' COVER)

CONNECT UD-4 to DI

ST'D. ST-1 REQ'D.

ST'D. IS-1 REQ'D.

L=4' H=7.4' INV.=173.40

1 ST'D. DI-3B REQ'D.
Storm Sewer Profiles

Not to be used for any type of construction. These plans are unfinished and unapproved and are not to be used for plans of construction.

Surveyed by, Date
Design by
Subsurface Utility by, Date
Project Manager

Legend
DENOTES EX. GRADE
DENOTES HGL
DENOTES PROP. GRADE
DENOTES EX. STR. OR PIPE

H: 1"=25'
V: 1"=5'
SCALE
25'
50'
5'

T.C. = 131.29
4+31.32
1 STD. DI-3B REQ'D. L=12'
6-1

5-6 to 9-2

T.C. = 111.50
0+00.00
1 STD. ES-1 (30") REQ'D.
5-6

T.C. = 135.02
5+87.40
1 STD. DI-3B REQ'D. L=6'
6-7

T.C. = 123.84
2+34.80
1 STD. DI-3B B REQ'D. L=16'
5-1

T.C. = 115.55
0+87.05
1 STD. DI-3B REQ'D. L=4'
5-4

T.C. = 114.83
0+26.37
1 STD. DI-3B REQ'D. L=6'
5-5

30" Storm Sewer Pipe Req'd.
145.24 L.F.

1.20%

30" Storm Sewer Pipe Req'd.
194.00 L.F.

1.16%

30" Storm Sewer Pipe Req'd.
153.57 L.F.

1.30%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

109.00
109.25
109.45
110.15
110.25
111.00
112.00
118.50
120.75
126.00
128.00
129.30
129.90
130.00

1.25

118.00
5-2 to 5-1

1.25

125.50
6-8 to 6-1

1.25

128.00
6-4 to 6-2

1.21%

Pipe Req'd.
30" Storm Sewer
42.58 L.F.

1.25

130.25
6-11 to 6-2

1.25

128.00
6-11 to 6-2

1.21%

Pipe Req'd.
30" Storm Sewer
58.00 L.F.

1.00%

Pipe Req'd.
30" Storm Sewer
25.03 L.F.

1.30%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%

24" Storm Sewer Pipe Req'd.
125.02 L.F.

1.40%
Storm Sewer Profiles
SWM Pond 5-1 Detail

Detail
Sediment Forebay Splitway
View To Scale

2016 Roads & Bridge Standards

Stormwater Management Details

Notes:
1. As-Built Drawing of Stormwater Management Facilities. The Contractor shall prepare As-Built drawings of all stormwater management facilities. The As-Built drawings shall show the actual finished ground contours and structure dimensions and elevations as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall be included under Construction Surveying.
2. Inspections during critical stages of construction shall be included under Construction Surveying.
3. This facility shall be maintained by Virginia Department of Transportation.
4. Refer to Sheet 2K for Drainage Descriptions.
STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

Sheet 1 of 3

Section 1 General Information

1. Activity Description - The Project is located on Neabsco Mills Road (Route 638) at 927 Maple Grove Drive, Prince William County, Virginia. The project will involve widening of approximately 0.95 miles. The project includes widening of the existing roadway to a 10-foot-wide travel lane in each direction, and full-depth reconstruction and mill and overlay of the existing lanes.

2. This land disturbance (construction) activity site is located in Prince William County and approximately 1.33 acres will be disturbed by excavation, grading or other construction activities.

3. This proposed activity disturbs one or more streams or wetlands. The right of way survey and plan allows for the disturbance of a combined 0.02 acres. The applicant has notified the nearest public water Supplier facility structure, not to be limited to, borrow and disposeshop construction and excavation, earthmoving, storage areas, storage areas for terraces, bulk or chemical, concrete wash out boxes, sanitary waste facilities and any washing or settling ponds.

4. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

5. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for this land disturbance (construction) activity.

6. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

7. The intended sequence and timing of activities that disturb soils at the site is described in the construction plan set (or other such documents) for this land disturbance (construction) activity.

8. A record of the dates when major grading activities occur, when construction activities are started, and when the site is temporarily or permanently cease on a portion of the site, and when stabilization measures are started or implemented is to be maintained with the other SWPPP documents for this land disturbance (construction) activity.

9. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures is contained in the project damage and the VDOT LD-445A or other comparable permit requirement.

10. Nutrient studies shall be completed in accordance with Sections 603 and 604 of the VDOT Nutrient and Sediment Stewardship Policy.

11. Engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project damage and the VDOT LD-445A or other comparable permit requirement.

12. Construction of facilities and any other areas that may generate a stormwater or non-stormwater discharge into surface waters is prohibited.

13. ESC and SWM plans (where applicable) for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents.

14. The ESC and SWM Plans are intended to be reviewed by the VDOT Project Engineer for review and approval. Any changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable District Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable District Hydraulics Engineer for review and approval.

15. All channel relocations are to be constructed during the earliest stage of construction for this land disturbance (construction) activity. Stabilization or vegetation shall be established immediately after the project has been completed and before any grubbing operations or other earth moving activities.

16. All channel relocations are to be constructed during the earliest stage of construction for this land disturbance (construction) activity. Stabilization or vegetation shall be established immediately after the project has been completed and before any grubbing operations or other earth moving activities.

17. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents.

18. The ESC and SWM Plans are intended to be reviewed by the VDOT Project Engineer for review and approval. Any changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable District Hydraulics Engineer for review and approval.

19. All channel relocations are to be constructed during the earliest stage of construction for this land disturbance (construction) activity. Stabilization or vegetation shall be established immediately after the project has been completed and before any grubbing operations or other earth moving activities.

20. The ESC and SWM Plans are intended to be reviewed by the VDOT Project Engineer for review and approval. Any changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable District Hydraulics Engineer for review and approval.

21. All channel relocations are to be constructed during the earliest stage of construction for this land disturbance (construction) activity. Stabilization or vegetation shall be established immediately after the project has been completed and before any grubbing operations or other earth moving activities.

22. The ESC and SWM Plans are intended to be reviewed by the VDOT Project Engineer for review and approval. Any changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable District Hydraulics Engineer for review and approval.

23. All channel relocations are to be constructed during the earliest stage of construction for this land disturbance (construction) activity. Stabilization or vegetation shall be established immediately after the project has been completed and before any grubbing operations or other earth moving activities.

24. The ESC and SWM Plans are intended to be reviewed by the VDOT Project Engineer for review and approval. Any changes to the proposed ESC Plan (e.g., those that require an engineering analysis) shall be submitted to the applicable District Hydraulics Engineer for review and approval.

25. All channel relocations are to be constructed during the earliest stage of construction for this land disturbance (construction) activity. Stabilization or vegetation shall be established immediately after the project has been completed and before any grubbing operations or other earth moving activities.

Revision: 09/19/26
STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

SECTION I SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity must be made available upon request to the contractor for review upon request during normal business hours. In addition, if the contractor requests it, all documents related to the SWPPP for this land disturbance (construction) activity must be made available upon request to the local government officials or the operator of a municipal separate storm sewer system for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be made available for review by the public upon request. Such reviews shall be at a time and a public accessible location convenient to the public.

SECTION I SWPPP

3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage or completion of land disturbance (construction) activity, the contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

4. The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ in its letter dated (date). The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equally or greater than 10,000 square feet, or equal or greater than 2,500 square feet in the area defined as Needs, Virginia in the Virginia Department of Conservation and Recreation Water Quality Regulation.

SECTION II POST CONSTRUCTION STORMWATER MANAGEMENT

3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site support activities that disturb an area equally or greater than 10,000 square feet, or equal or greater than 2,500 square feet in the area defined as Needs, Virginia in the Virginia Department of Conservation and Recreation Water Quality Regulation.

4. The contractor shall submit a copy of the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall include the designated record set of data for the land disturbance (construction) activity.

5. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

6. An description of offsite/stormwater management measures that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity. Such descriptions of offsite/stormwater management measures are to be included in the construction plan set for this land disturbance (construction) activity.

7. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

8. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

SECTION IV POST CONSTRUCTION STORMWATER MANAGEMENT

1. If this land disturbance (construction) activity is grandfathered under Section 3.1 of the VSMP Regulation, the contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

2. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

3. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

4. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

5. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

6. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

7. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

8. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

9. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

10. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

11. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

12. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

13. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

14. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

15. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

16. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

17. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

18. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

19. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

20. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

21. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

22. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

23. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

24. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

25. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

26. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

27. The contractor shall develop and submit to the DEQ in its letter dated (date). The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.
## Stormwater Pollution Prevention Plan (SWPPP)

### General Information Sheet

The VDOT R&B ensures that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing construction activity. The updated/revised sheets should be maintained with the designated record set of plans for other such documents for the land disturbance construction activity.

### Section VI - Permanent BMP Information

<table>
<thead>
<tr>
<th>Plan Sheet No.</th>
<th>BMP Type</th>
<th>County or City</th>
<th>Site Name</th>
<th>BMP Owner/Operator</th>
<th>Name of Impacted Water (1)</th>
<th>Acres Treated Per BMP</th>
<th>BMP Maintenance ID Number</th>
<th>BMP Inspection ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>VDOT</td>
<td>Extended detention pond</td>
<td>King George</td>
<td>Neabsco Creek</td>
<td>Mark A. Gunn PE (703) 334-9288</td>
<td>Neabsco Creek</td>
<td>3.88</td>
<td>39</td>
<td>4</td>
</tr>
</tbody>
</table>

### Table A: Permanent BMP Types

<table>
<thead>
<tr>
<th>BMP Type</th>
<th>Nutrient Credits</th>
<th>Hydrologic</th>
<th>Geomorphic</th>
<th>Vegetation</th>
<th>Maintenance</th>
<th>Other Approvals</th>
</tr>
</thead>
</table>

### Table B: Alternative BMP Types

<table>
<thead>
<tr>
<th>BMP Type</th>
<th>Nutrient Credits</th>
<th>Hydrologic</th>
<th>Geomorphic</th>
<th>Vegetation</th>
<th>Maintenance</th>
<th>Other Approvals</th>
</tr>
</thead>
</table>

### Notes:

- (1) List the name of any impacted water to which the BMP discharges.
- (2) The determination of improved water bodies based on those elements found not to be impaired in the VDOT SWPPP Water Quality Assessment Baseline Report and other named waterbodies to which the BMP discharges. The reported waters are those impaired for nitrogen and/or phosphorus. These pollutants are considered sediment impacts.
- (3) BMP Maintenance E-Number is assigned to the District Infrastructure Manager or permit issuance or project completion.
- (4) Nutrient credits purchased to the nearest one hundredth pound.
- (5) Applies to the purchase of nutrient credits only.
- (6) Spot pollution is no longer a viable option for stormwater management.
- (7) Amendments to the BMP information are submitted with the SWPPP General Information Sheet.
Prop. R/W and Survey Boundary Info. (for information purposes only)
Pavement Marking Plan

Pavement Marking Legend:

- Type B, Class I, White, 4" Width
- Type B, Class I, White, 24" Width, 20' Spacing @ 45°
- Type B, Class I, Yellow, 4" Width, Double Line, 4" Space
- Type B, Class I, White, Turn Lane Use Arrow
- Type B, Class I, White, 4" Width, 10' Long, 30' Space
- Type B, Class I, Yellow, 24" Width, 4'4" Spacing @ 45°
- Type B, Class I, Yellow, 4" Width, 2' Long, 4' Space
- Type B, Class I, Yellow, 4" Width, Long, 32' Space

NOTES:
- Notation on any existing condition line does not reflect the pavement marking plan as shown on this sheet, which is completely speculative per VDOT Standards.
- The cost shall be incidental to the project and not paid for in the project. The cost shall be included in the project and not paid.
**Pavement Marking Plan**

**Traffic Pavement Marking Plans**

Prune Willow, Ghazi Virginia

---

**Pavement Marking Legend**

1. Type B, Class I, White, 4" Width
2. Type B, Class I, White, 24" Width, 20' Spacing @ 45°
3. Type B, Class I, White, Turn Lane Use Arrow
4. Type B, Class I, White, 4" Width, 10' Long, 30' Space
5. Type B, Class I, White, 4" Width, 2' Long, 4' Space
6. Type B, Class I, Yellow, 4" Width
7. Type B, Class I, Yellow, 4" Width, Double Line, 4' Space
8. Type B, Class I, Yellow, 24" Width, 4'4" Spacing @ 45°
9. Type B, Class I, Yellow, 4" Width, 6' Long
10. Type B, Class I, Yellow, 4" Width, 2' Long, 4' Space

---

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION. THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION. THE COST SHALL BE INCIDENTAL TO THE PROJECT AND NOT PAID FOR AS A SEPARATE ITEM. THE PLAN SHEET SHALL BE COMPLETELY ERADICATED PER VDOT STANDARDS. THE COST SHEET IS PROPOSED TO THE PROJECT AND NOT PAID FOR AS A SEPARATE ITEM.
**PLAN OF PROPOSED TRAFFIC SIGNAL**

**Jefferson Davis Highway (US Route 1) at Neabsco Mills Road (Route 638)**

1. All right turn overlaps shall be wired to the overlap switch position.
2. The Contractor shall coordinate the installation of the new traffic signal system with theDesigner Associates, P.C.
3. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
4. The Contractor shall secure approval from the Department of Fire and Rescue that specifies the approaches to be preempted. The Fire & Rescue Department contact is Chief Rob Clemons 703-785-0434 or e-mail @ rescue.
5. The Contractor shall install the OPTICOM EVP system as shown on the drawings. The Contractor shall notify the Engineer of Record prior to commencing work.
6. No additional roadway surface depression for all traffic signal related junction boxes containing cable with less than 2600 lbs. minimum yield strength shall be cast aluminum.
7. The Contractor shall maintain covers until the new traffic signal system is operational.
8. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
9. The Contractor shall coordinate the installation of the new traffic signal system with the Designer Associates, P.C.
10. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
11. The Contractor shall notify the VDOT Engineer prior to commencing work.
12. The Contractor shall maintain covers until the new traffic signal system is operational.
13. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
14. The Contractor shall notify the VDOT Engineer prior to commencing work.
15. All right turn overlaps shall be wired to the overlap switch position.
16. The Contractor shall coordinate the installation of the new traffic signal system with the Designer Associates, P.C.
17. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
18. The Contractor shall notify the VDOT Engineer prior to commencing work.
19. The Contractor shall maintain covers until the new traffic signal system is operational.
20. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
21. The Contractor shall notify the VDOT Engineer prior to commencing work.
22. The Contractor shall maintain covers until the new traffic signal system is operational.
23. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
24. The Contractor shall notify the VDOT Engineer prior to commencing work.
25. The Contractor shall maintain covers until the new traffic signal system is operational.
26. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
27. The Contractor shall notify the VDOT Engineer prior to commencing work.
28. The Contractor shall maintain covers until the new traffic signal system is operational.
29. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
30. The Contractor shall notify the VDOT Engineer prior to commencing work.
31. The Contractor shall maintain covers until the new traffic signal system is operational.
32. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
33. The Contractor shall notify the VDOT Engineer prior to commencing work.
34. The Contractor shall maintain covers until the new traffic signal system is operational.
35. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
36. The Contractor shall notify the VDOT Engineer prior to commencing work.
37. The Contractor shall maintain covers until the new traffic signal system is operational.
38. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
39. The Contractor shall notify the VDOT Engineer prior to commencing work.
40. The Contractor shall maintain covers until the new traffic signal system is operational.
41. The Contractor shall ensure that all work complies with VDOT Road and Bridge Standards. Foundation excavations shall be in accordance with Standard ECI-1.
General Notes:

1. Distances shown on these plans are approximate and actual conduit runs must and continue to site field conditions.
2. Certain utilities whose facilities are not shown on these plans are not guaranteed to be complete of accuracy ensured. The Contractor is responsible for locating all existing utilities and lighting systems before proceeding with the work.
3. At locations where proposed conduit shall cross existing conduit, the Contractor shall notify the transectors and shall separate cross-overs to avoid the existing conduit or the crossing trench. These conditions shall apply to all such conduit crossings except those locations where proposed conduit will cross conduit designed to be abandoned.
4. Conduits shall be installed with a minimum radius of the 15' minimum radius to bypass drainage inlets, manholes and other obstructions.
5. Conduits shall be installed with a minimum of 2'-6" of conduit guardrail, posts.
6. Conduits shall be installed with a minimum of 2'-6" of conduit guardrail, posts.
7. An underground conduit shall be staked to a junction based or manholes if this cannot be accomplished, may also be provided with drainage inlets at the low points of conduit runs.
8. The Contractor shall provide expansion couplings at all extention joints or sections as indicated by the Engineer.
9. Power shall be in accordance with the most current VDOT edition of the Roadway Standards and Specifications and Statewide Virginia Power supply whenever needed.
10. The Contractor shall furnish and install an equipment grounding conductor in all nonmetallic conduit in accordance with Section 700 of the Specifications. The minimum equipment grounding conductor size shall be the same as the conduit used on the plans for each conduit run.
11. Conduits for roadway lighting shall be connected to the ground while utilizing an earthed wire. All parts of the system shall be included in the bid price for other items. No separate measurement will be made.
12. Locations of existing utilities, such as manholes shown on the plans are approximate.
13. The Contractor shall provide adequate protective covers on spans and areas subject to review and approval by the Engineer.
14. The Contractor shall be responsible for return all disturbed areas and restoring to original grade of the vicinity of the plan. Disturbed areas shall be restored to its original grade of the plan. Disturbed areas shall be restored to its original grade of the plan. Disturbed areas shall be restored to its original grade of the plan. Disturbed areas shall be restored to its original grade of the plan.
15. Separate contracts may be sublet within the limits of the project. The Contractor shall control the work being performed by other contractors and must cooperate and coordinate the work of this project with the other contractors.
Conduit Plan for PWC Lighting

REFERENCES

PROJECT (ELEVATIONAL & DRAINAGE DESCRIPTION SHEETS, ETC.)

R.E. GUITE JR., P.E.

B. MULLEN, AND BRIAN RAMINPOUR

JOSHUA JOHNSON, P.E.

BRICK & FRAME (BY OTHERS)

iset. #9

VIRGINIA, LLC

LONGVIEW FACILITY

REVISION HISTORY

Sheet Date

0.6712 AC.

0.6363 AC.

1.9236 AC.

0.5852 AC. - Assessed

0.0133 AC.

0.1141 AC.

15(4) and 1R(3)

0.0133 AC.

14

2A - 2B(2)

1G - 1G(2)

PARCEL 2 L.L.C.

LOT 38-E-1

PARCEL 1 L.L.C.

lot 10794715(3)

t10794715(3).dgn

t10794715(3).dgn

REFERENCES

8.1486 AC.

35x23 (in.)

10.1485 AC.

35x23 (in.)

10.1485 AC.

35x23 (in.)

10.1485 AC.

35x23 (in.)

10.1485 AC.

35x23 (in.)

10.1485 AC.

35x23 (in.)

10.1485 AC.
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

NOTICE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS

INTENDED TO SHOW APPROPRIATE LOCATIONS OF UTILITY RELOCATIONS

BASED ON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE

CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACTUALLY LOCATE

AND THE APPROPRIATE RELOCATION PRIOR TO CONSTRUCTION.

REFERENCES

(1) PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

SCALE: 1" = 100' VARYING

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS

INTENDED TO SHOW APPROPRIATE LOCATIONS OF UTILITY RELOCATIONS

BASED ON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE

CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACTUALLY LOCATE

AND THE APPROPRIATE RELOCATION PRIOR TO CONSTRUCTION.
Utility Relocation Plan (For Information Purposes Only)

Utility Legend

PROPOSED PUSHBRACE
PROPOSED GUY & ANCHOR
PROPOSED ON LINE
PROPOSED UG ELECTRIC
PROPOSED UG COMM

NOTES:
- Information shown on this Utility Relocation Plan is intended to show approximate locations of utility relocations based on plan and estimates provided by the Responsible Utility Companies. The Contractor is responsible for actual location and coordination with the responsible utility companies prior to construction.

REFERENCE SHEETS:
- Profiles, Detail & Drainage Description Sheets, etc.
- Survey Control Data Sheet
- Design/Geometrics
- Prop. R/W & Boundary Info.
- Prop. Temp.
- Prop. Perm.
- Prop. Perm. DE
- Prop. Perm. M
- Drainage Descriptions
- TMP

These plans are unfinished and unapproved and are not to be used for any type of construction.
Utility Relocation Plan (For Information Purposes Only)

**Utility Legend**

- Proposed Pushbrace
- Proposed Cut & Anchor
- Proposed On Line
- Proposed US Electric
- Proposed US WAM
- Utility Pole
- Utility Marker
- Most

**Notes:**

- Gas and CCTV relocations pending will be added on future submission.

- Information shown on this utility relocation plan is intended to show approximate locations of utility relocations based on plans and estimates provided by the responsible utility companies. The construction firm is responsible for actual location based on plan and estimates provided by the responsible utility companies.

- These plans are unfinished and unapproved and are not for construction.

**References:**

- Profiles, plans, and drainage description sheets, etc.

**Proposed R/W and VZN:**

- Prop. R/W (VZN)
- Prop. Temp. (VZN)
- Prop. Perm. (VZN)
- Constr. Ease.

**Contractor:**

- The contractor is responsible for actual location based on plan and estimates provided by the responsible utility companies.

**Design Features:**

- Design features relating to construction shall be clearly shown on the drawings, and may be subject to change by project management at the discretion of the designer.

**Utility Test Hole Data Sheet:**

- Plan Sheet
- Construction Geometrics (Profiles, detail & drainage description sheets, etc.)

**State: VA North 1983**

- Note: Information shown on this utility relocation plan is intended to show approximate locations of utility relocations based on plans and estimates provided by the responsible utility companies. The construction firm is responsible for actual location based on plan and estimates provided by the responsible utility companies.
Utility Relocation Plan (For Information Purposes Only)

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE CIVIL ENGINEER BASED UPON PLAN AND ESTIMATES PROVIDED BY THE RESPONSIBLE TRANSPORTATION-ENVIRONMENTAL COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL LOCATION OF ALL UTILITIES AND COORDINATION WITH THE CONSTRUCTION COMMISSIONER PRIOR TO CONSTRUCTION.

Copyright 2017, RDA, Inc. Not for use without express written permission.
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

NECESSARY BY THE DEPARTMENT

OR TO REGULATION AND CONTROL OF TRAFFIC

DESIGN FEATURES RELATING TO CONSTRUCTION

NOTE: INFORMATION SHOWN ON THIS UTILITY RELOCATION PLAN IS

INTENDED TO SHOW APPROXIMATE LOCATIONS OF UTILITY RELOCATIONS

utility companies. The contractor is responsible for actual location

based upon plan and estimates provided by the responsible

contractor. All existing and relocated utilities and coordination with the

appropriate representative prior to construction.

GAS AND CUSTY RELOCATIONS PENDING

WILL BE ADDED ON FUTURE SUBMISSION

Utility Test Hole Data Sheet

Profile Route 638

Plan Sheet

Drainage Descriptions

Typical Sections

Erosion Controls Ph.1 & Ph.2

Construction Geometrics

Survey Control Data Sheet

REFERENCES

PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.

[1Q(10) and 1R(10)]

[1F and 1F(1)]

[2A - 2B(2)]

[2K - 2K(1)]

[1K - 1M(3)]

[1G - 1G(2)]

[10A]

[10]

[REVISED]

[STATE]

[SCALE]

[25']

[PLotted By: kloving]

[NOTES]

[INFORMATION PURPOSES ONLY]

[Utility Relocation Plan (For Information Purposes Only)]

[Sheet 16(9)]

[PHASE PLANS]
Cross Sections Project Index of Sheets

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sheet No. 1 of Cross Section Project Index of Sheets</td>
</tr>
<tr>
<td>2</td>
<td>Sheet No. 2 of Cross Section Project Index of Sheets</td>
</tr>
<tr>
<td>3</td>
<td>Sheet No. 3 of Cross Section Project Index of Sheets</td>
</tr>
<tr>
<td>4</td>
<td>Sheet No. 4 of Cross Section Project Index of Sheets</td>
</tr>
<tr>
<td>5</td>
<td>Sheet No. 5 of Cross Section Project Index of Sheets</td>
</tr>
<tr>
<td>6</td>
<td>Sheet No. 6 of Cross Section Project Index of Sheets</td>
</tr>
<tr>
<td>7</td>
<td>Sheet No. 7 of Cross Section Project Index of Sheets</td>
</tr>
<tr>
<td>8</td>
<td>Sheet No. 8 of Cross Section Project Index of Sheets</td>
</tr>
</tbody>
</table>

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE DEEMED NECESSARY BY THE DEPARTMENT.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

STATE ROUTE REVISED SHEET NO.

R/W PHASE PLANS
APRIL 2019

ürnberg: kloving
1:43:51 PM 5/2/2019

RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100, August 1, 2017

VDOT Project 0638-076-209 (UPC: 107947)
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

R/W PHASE PLANS
APRIL 2019

ürnberg: kloving
1:43:51 PM 5/2/2019

RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100, August 1, 2017

VDOT Project 0638-076-209 (UPC: 107947)
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

R/W PHASE PLANS
APRIL 2019

ürnberg: kloving
1:43:51 PM 5/2/2019

RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100, August 1, 2017

VDOT Project 0638-076-209 (UPC: 107947)
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

R/W PHASE PLANS
APRIL 2019

ürnberg: kloving
1:43:51 PM 5/2/2019

RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100, August 1, 2017

VDOT Project 0638-076-209 (UPC: 107947)
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

R/W PHASE PLANS
APRIL 2019

ürnberg: kloving
1:43:51 PM 5/2/2019

RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100, August 1, 2017

VDOT Project 0638-076-209 (UPC: 107947)
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

R/W PHASE PLANS
APRIL 2019

ürnberg: kloving
1:43:51 PM 5/2/2019

RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100, August 1, 2017

VDOT Project 0638-076-209 (UPC: 107947)
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

R/W PHASE PLANS
APRIL 2019

ernalsco Mills Rd., Rte. 638 (GS-7)
Jefferson Davis Hwy (US Rte. 1)
Commercial Ent.
Smoke Ct. (Rte. 1782)
Dale Blvd. (Rte. 784)
Freedom High School Entrance
Church Entrance
College Drive S
College Drive N
School Entrance
Freedom High
CROSS SECTIONS
SCALE 1 IN. = 10 FT

Neabsco Mills Rd.

Station POV 500 to Station 21+25.00

CROSS SECTIONS REVISED STATE PROJECT SHEET NO. PROJ. R/W

SCALE 1 IN. = 10 FT
PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193
RDA: Ryan Dreelin LS (703) 334-9302; July 3, 2017
RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100; August 1, 2017

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE
R/W PHASE PLANS

Neabsco Mills Rd.
Neabsco Mills Rd.

Station 21+50.00 To Station 21+75.00

5/2/2019 1:44:38 PM

VA ESB 0638-076-203 LA

CROSS SECTIONS

SCALE 1 IN. = 10 FT

Neabsco Mills Rd.

R/R PHASE PLANS

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE FOR REVIEW ONLY.

PROJECT MANAGER PWCDOT: Khattab Shammout, P.E. (703) 792-7193

RDA: Ryan Dreelin LS (703) 334-9302; July 3, 2017

RDA: Mark A. Gunn PE (703) 334-9288

Accumark (703) 378-0100; August 1, 2017

SURVEYED BY, DATE

DESIGN BY

SUBSURFACE UTILITY BY, DATE
### CROSS SECTIONS

**Scale 1 in. = 10 ft**

####設計特徵及交通管理或控制における構造

这些计划尚未完成且未经批准，不适用于任何类型的施工。

- **Neabsco Mills Rd.**
- **Station 24+00.00** to **Station 24+50.00**

<table>
<thead>
<tr>
<th>站点</th>
<th>高程</th>
<th>站点</th>
<th>高程</th>
</tr>
</thead>
<tbody>
<tr>
<td>24+00.00</td>
<td>EL - 78.67</td>
<td>24+50.00</td>
<td>EL - 79.69</td>
</tr>
<tr>
<td>24+05.00</td>
<td>EL - 79.17</td>
<td>24+55.00</td>
<td>EL - 79.65</td>
</tr>
<tr>
<td>24+10.00</td>
<td>EL - 80.02</td>
<td>24+60.00</td>
<td>EL - 79.55</td>
</tr>
<tr>
<td>24+15.00</td>
<td>EL - 80.87</td>
<td>24+65.00</td>
<td>EL - 79.47</td>
</tr>
<tr>
<td>24+20.00</td>
<td>EL - 81.49</td>
<td>24+70.00</td>
<td>EL - 79.13</td>
</tr>
<tr>
<td>24+25.00</td>
<td>EL - 82.00</td>
<td>24+75.00</td>
<td>EL - 79.02</td>
</tr>
<tr>
<td>24+30.00</td>
<td>EL - 82.50</td>
<td>24+80.00</td>
<td>EL - 79.69</td>
</tr>
<tr>
<td>24+35.00</td>
<td>EL - 83.23</td>
<td>24+85.00</td>
<td>EL - 80.92</td>
</tr>
<tr>
<td>24+40.00</td>
<td>EL - 83.73</td>
<td>24+90.00</td>
<td>EL - 82.00</td>
</tr>
<tr>
<td>24+45.00</td>
<td>EL - 84.24</td>
<td>24+95.00</td>
<td>EL - 82.64</td>
</tr>
<tr>
<td>24+50.00</td>
<td>EL - 84.71</td>
<td>25+00.00</td>
<td>EL - 83.36</td>
</tr>
</tbody>
</table>

**工程经理**

PWCDOT: Khattab Shammout, P.E. (703) 792-7193

RDA: Ryan Dreelin LS (703) 334-9302; July 3, 2017

RDA: Mark A. Gunn PE (703) 334-9288

Accumark (703) 378-0100; August 1, 2017
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

Note: These plans are unfinished and unapproved and are not to be used for any type of construction.

The crosses 00 are used for survey purposes only.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

Neabsco Mills Rd.

Station 24+75.00 To Station 25+25.00

5/2/2019 1:44:57 PM

VA

PWCDOT: Khattab Shammout, P.E. (703) 792-7193
RDA: Ryan Dreelin LS (703) 334-9302; July 3, 2017
RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100; August 1, 2017

SURVEYED BY, DATE

DESIGN BY

SUBSURFACE UTILITY BY, DATE

2 .1%
-2 .1%
-2 .0%
2 .0%
-3 :1
2 .0%
2 .0%
-3 :1

E L - 8 5 .4 0
-7 .5 0
EL - 8 5 .9 0
-7 .0 0
EL - 8 5 .7 5
0 .0 0
EL - 8 5 .6 0
7 .0 0
EL - 8 5 .1 0
7 .5 0
EL - 8 4 .4 2
4 1.4 6
EL - 8 4 .2 5
4 3 .4 6
EL - 8 4 .7 5
4 3 .9 6
EL - 8 4 .8 4
4 8 .4 6
EL - 8 5 .0 4
5 8 .4 6
EL - 8 5 .0 8
6 0 .4 6
EL - 8 4 .9 4
6 0 .8 9
EL - 8 6 .4 1
-4 4 .0 0
EL - 8 6 .3 7
-4 2 .0 0
EL - 8 6 .2 7
-3 7 .0 0
EL - 8 6 .1 9
-3 3 .0 0
EL - 8 5 .6 9
-3 2 .5 0
EL - 8 5 .8 6
-3 0 .5 0
EL - 8 5 .9 8
-3 0 .5 0
EL - 8 6 .6 6
-6 2 .0 0
EL - 8 6 .2 4
-5 0 .8 0
EL - 8 8 .5 1
-4 4 .0 0
EL - 8 8 .4 7
-4 2 .0 0
EL - 8 8 .3 7
-3 7 .0 0
EL - 8 8 .2 9
-3 3 .0 0
EL - 8 7 .7 9
-3 2 .5 0
EL - 8 7 .9 6
-3 0 .5 0
EL - 8 8 .3 3
-6 3 .0 9
EL - 8 8 .0 7
-5 1.3 9
EL - 8 8 .5 3
-4 4 .0 0
EL - 8 8 .4 9
-4 2 .0 0
EL - 8 8 .3 9
-3 7 .0 0
EL - 8 8 .3 1
-3 3 .0 0
CROSS SECTIONS

SCALE 1 IN. = 10 FT

Neabsco Mills Rd.

Station 25+00.00 To Station 26+00.00

5/2/2019 1:45:01 PM

PROJECT MANAGER
PWCDOT: Khattab Shammout, P.E. (703) 792-7193
RDA: Ryan Dreelin LS (703) 334-9302; July 3, 2017
RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100; August 1, 2017

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE
R/W PHASE PLANS

REVISED STATE
REVISED STATE
REVISED STATE

E X R /W
E X R /W
E X R /W

P R O P . R /W
P R O P . R /W
P R O P . R /W

2 .1%
2 .1%
2 .0%
"-2 .1%
"-2 .0%
2 .0%
2 .0%
-3 :1
-3 :1
2 .0%
2 .0%

E L - 9 1.4 7
E L - 9 1.9 7
E L - 9 1.8 2
E L - 9 1.6 7
E L - 9 1.17
E L - 9 0 .4 9
E L - 9 0 .3 3
E L - 9 4 1.4 6
E L - 9 0 .8 3
E L - 9 0 .9 2
E L - 9 1.12
E L - 9 1.16
E L - 9 0 .3 3
E L - 9 2 .4 9
E L - 9 2 .4 5
E L - 9 2 .3 5
E L - 9 2 .2 7
E L - 9 1.7 7
E L - 9 1.9 3
E L - 9 2 .4 1
E L - 9 2 .2 4
E L - 9 2 .7 4
E L - 9 2 .8 3
E L - 9 3 .0 3
E L - 9 3 .0 7
E L - 9 2 .2 8
E L - 9 4 .4 0
E L - 9 4 .3 6
E L - 9 4 .2 6
E L - 9 4 .18
E L - 9 4 .16
E L - 9 4 .6 6
E L - 9 4 .7 5
E L - 9 4 8 .4 6
E L - 9 5 8 .4 6
E L - 9 6 0 .4 6
E L - 9 6 2 .8 3
E L - 9 2 .2 8
E L - 9 6 2 .9 4
E L - 9 2 .4 9
E L - 9 2 .4 5
E L - 9 2 .3 5
E L - 9 2 .2 7
E L - 9 1.7 7
E L - 9 1.9 3
E L - 9 4 1.4 6
E L - 9 4 3 .4 6
E L - 9 4 3 .9 6
E L - 9 4 8 .4 6
E L - 9 5 8 .4 6
E L - 9 6 0 .4 6
E L - 9 6 2 .8 3
E L - 9 2 .2 8
E L - 9 6 2 .9 4
E L - 9 2 .4 9
E L - 9 2 .4 5
E L - 9 2 .3 5
E L - 9 2 .2 7
E L - 9 1.7 7
E L - 9 1.9 3
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.
CROSS SECTIONS

Station 30+75.00 to Station 31+25.00

<table>
<thead>
<tr>
<th>Station</th>
<th>EL</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>30+75.00</td>
<td>126.32</td>
<td>Neabsco Mills Rd. E X R/W</td>
</tr>
<tr>
<td>31+00.00</td>
<td>126.82</td>
<td></td>
</tr>
<tr>
<td>31+25.00</td>
<td>126.11</td>
<td></td>
</tr>
<tr>
<td>31+50.00</td>
<td>126.13</td>
<td></td>
</tr>
<tr>
<td>31+75.00</td>
<td>126.17</td>
<td></td>
</tr>
</tbody>
</table>

**Scale 1 in. = 10 ft**
**CROSS SECTIONS**

**Scale: 1 in. = 10 ft**

<table>
<thead>
<tr>
<th>Station</th>
<th>Elevation (ft)</th>
<th>Percent Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>35+25.00</td>
<td>35+75.00</td>
<td>35+100.00</td>
</tr>
<tr>
<td>35+25.00</td>
<td>35+75.00</td>
<td>35+100.00</td>
</tr>
</tbody>
</table>

**Note:**
- These plans are unfinished and unapproved and are not to be used for any type of construction.
- The department reserves the right to change the plans at any time.

**Project Manager:** PWCDOT: Khattab Shammout, P.E. (703) 792-7193

**RDA:** Ryan Dreelin LS (703) 334-9302; July 3, 2017

**Accumark (703) 378-0100; August 1, 2017**
NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE
R/W PHASE PLANS

Station 36+00.00 To Station 36+50.00

5/2/2019 1:45:57 PM

CROSS SECTIONS

VA.
REVISED STATE
ROUTE PROJECT
SHEET NO.

SCALE 1 IN. = 10 FT

PROJECT MANAGER
PWCDOT: Khattab Shammout, P.E. (703) 792-7193
RDA:  Ryan Dreelin LS (703) 334-9302; July 3, 2017
RDA:  Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100; August 1, 2017

SURVEYED BY, DATE
DESIGN BY
SUBSURFACE UTILITY BY, DATE

Neabsco Mills Rd.

E X  R/W

E X  R/W

E x . Pav e.

E x . Pav e.

EL - 13 1.05
-8 1.85

EL - 14 3.13
-4 5.60

EL - 14 2.99
-3 8.60

EL - 14 2.91
-3 4.60

EL - 14 2.41
-3 4.10

EL - 14 2.58
-3 2.10

EL - 14 3.0
-3 9.60

EL - 14 3.61
-5.75

EL - 14 4.11
-5.25

EL - 14 4.37
0.87

EL - 14 4.62
7.00

EL - 14 4.18
5.40

EL - 14 3.61
-5.75

EL - 14 4.51
-4.48

EL - 14 4.47
-4.28

EL - 14 4.37
-3.78

EL - 14 4.29
-3.38

EL - 14 3.79
-3.33

EL - 14 3.96
-3.13

EL - 14 5.02
3.05

EL - 14 4.86
3.25

EL - 14 5.47
7.50

EL - 14 5.65
4.75

EL - 14 5.69
4.95

EL - 14 4.18
5.40

EL - 14 5.96
-4.40

EL - 14 5.92
-4.20

EL - 14 5.82
-3.70

EL - 14 5.74
-3.30

EL - 14 5.24
-3.25

EL - 14 5.40
-3.05

EL - 14 6.37
3.05

EL - 14 6.37
3.05

EL - 14 6.20
3.25

EL - 14 6.70
3.30

EL - 14 6.79
3.75

EL - 14 7.03
4.75

EL - 14 5.65
5.36

EL - 14 4.51
-4.2

EL - 14 4.51
-4.2

EL - 14 4.47
-4.28

EL - 14 4.29
-3.38

EL - 14 3.79
-3.33

EL - 14 3.96
-3.13

EL - 14 5.02
3.05

EL - 14 4.86
3.25

EL - 14 5.47
7.50

EL - 14 5.65
4.75

EL - 14 5.69
4.95

EL - 14 4.18
5.40

EL - 14 5.96
-4.40

EL - 14 5.92
-4.20

EL - 14 5.82
-3.70

EL - 14 5.74
-3.30

EL - 14 5.24
-3.25

EL - 14 5.40
-3.05

EL - 14 6.37
3.05
**DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.**

**CROSS SECTIONS**

**SCALE 1 IN. = 10 FT**

---

**Neabsco Mills Rd.**

Station 36+75.00 To Station 37+25.00

<table>
<thead>
<tr>
<th>Station</th>
<th>36+75.00</th>
<th>37+25.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>E X R/W</td>
<td>Prop. R/W</td>
<td>X Pave.</td>
</tr>
<tr>
<td>EL-13</td>
<td>41.16</td>
<td>-83.86</td>
</tr>
<tr>
<td>EL-14</td>
<td>74.40</td>
<td>-44.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>77.40</td>
<td>-42.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>79.20</td>
<td>-37.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>81.20</td>
<td>-33.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>76.72</td>
<td>-32.50</td>
</tr>
<tr>
<td>EL-14</td>
<td>79.89</td>
<td>-30.50</td>
</tr>
<tr>
<td>EL-14</td>
<td>80.72</td>
<td>-30.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>80.78</td>
<td>-27.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>82.28</td>
<td>-20.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>82.58</td>
<td>-17.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>84.87</td>
<td>-10.00</td>
</tr>
<tr>
<td>EL-14</td>
<td>85.37</td>
<td>-7.50</td>
</tr>
<tr>
<td>EL-15</td>
<td>88.87</td>
<td>-7.00</td>
</tr>
<tr>
<td>EL-15</td>
<td>90.37</td>
<td>-0.00</td>
</tr>
<tr>
<td>EL-15</td>
<td>90.87</td>
<td>7.00</td>
</tr>
<tr>
<td>EL-15</td>
<td>91.93</td>
<td>7.50</td>
</tr>
<tr>
<td>EL-15</td>
<td>92.93</td>
<td>8.18</td>
</tr>
<tr>
<td>EL-15</td>
<td>93.82</td>
<td>30.50</td>
</tr>
<tr>
<td>EL-15</td>
<td>93.95</td>
<td>32.50</td>
</tr>
<tr>
<td>EL-15</td>
<td>94.60</td>
<td>33.00</td>
</tr>
<tr>
<td>EL-15</td>
<td>94.69</td>
<td>37.50</td>
</tr>
<tr>
<td>EL-15</td>
<td>94.89</td>
<td>47.50</td>
</tr>
<tr>
<td>EL-15</td>
<td>94.93</td>
<td>49.50</td>
</tr>
<tr>
<td>EL-15</td>
<td>95.64</td>
<td>55.94</td>
</tr>
</tbody>
</table>

---

**NEARBY ROADWRIGHT’S AND ANTICIPATED NEW ROADWAYS**

Note: The above information is subject to change as deemed necessary by the Department.
CROSS SECTIONS

SCALE 1 IN. = 10 FT

To Station 38+25.00

REVISED SHEET NO.

PROJECT MANAGER

PWWDOT: Khattab Shammout, P.E. (703) 792-7193

RDA:  Mark A. Gunn PE (703) 334-9288

RDA:  Ryan Dreelin LS (703) 334-9302; July 3, 2017

Accumark (703) 378-0100; August 1, 2017

NECESSARY BY THE DEPARTMENT
MAY BE SUBJECT TO CHANGE AS DEEMED
OR TO REGULATION AND CONTROL OF TRAFFIC
DESIGN FEATURES RELATING TO CONSTRUCTION

SUBSURFACE UTILITY BY, DATE
DESIGN BY
SURVEYED BY, DATE

[Diagram of cross sections with various measurements and notes]

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE

Neabsco Mills Rd.
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

Station 43+75.00 To Station 44+25.00

Neabsco Mills Rd.

SCALE 1 IN. = 10 FT

SURVEYED BY, DATE
DESIGN BY
SUBSURFACE UTILITY BY, DATE
PROJECT MANAGER
PWCDOT: Khattab Shammout, P.E. (703) 792-7193
RDA:  Ryan Dreelin LS (703) 334-9302; July 3, 2017
RDA:  Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100; August 1, 2017

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION. THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE R/W PHASE PLANS.
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.
Neabsco Mills Rd.
CROSS SECTIONS

SCALE 1 IN. = 10 FT

Neabsco Mills Rd.

Stations 48+25.00 to 48+75.00

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE
R/W PHASE PLANS

PROJECT MANAGER
PWCDOT: Khattab Shammout, P.E. (703) 792-7193
RDA: Ryan Dreelin LS (703) 334-9302; July 3, 2017
RDA: Mark A. Gunn PE (703) 334-9288

SUBSURFACE UTILITY
Accumark (703) 378-0100; August 1, 2017

SURVEYED BY, DATE
DESIGN BY

PROJECT SHEET NO.
SHEET NO.

CROSS SECTIONS

Station 52+00.00 to Station 52+50.00

Neabsco Mills Rd.

CROSS SECTIONS

SCALE 1 IN. = 10 FT
Design features relating to construction or to regulation and control of traffic may be subject to change as deemed necessary by the Department.

Station 57+25.00 to Station 57+75.00

Neabsco Mills Rd.
Neabsco Mills Rd.

Station 58+75.00 To Station 59+25.00

5/2/2019 1:48:09 PM

CROSS SECTIONS

SCALE 1 IN. = 10 FT

PROJECT MANAGER: PWCDOT: Khattab Shammout, P.E. (703) 792-7193
RDA: Ryan Dreelin LS (703) 334-9302; July 3, 2017
RDA: Mark A. Gunn PE (703) 334-9288
Accumark (703) 378-0100; August 1, 2017

NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE
R/W PHASE PLANS
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.
These plans are unfinished and unapproved and are not to be used for any type of construction.  

Freedom H.S. Entrance